

Title (en)

Ferroelectric liquid crystal mixture and optical modulation element using same.

Title (de)

Ferroelektrische Flüssigkristall-Mischung und deren Verwendung in einem optischen Modulationselement.

Title (fr)

Mélange de cristal liquide ferro-électrique et élément de modulation optique utilisant un tel mélange.

Publication

EP 0227419 B1 19940518 (EN)

Application

EP 86309824 A 19861216

Priority

JP 28358985 A 19851217

Abstract (en)

[origin: EP0227419A2] The invention easily produces ferroelectric liquid crystal mixture featuring extended helical structure by initially blending chiral materials having helical structure being opposite from each other in order to extend pitch of ferroelectric liquid crystal mixture followed by blending of a non-chiral material free from helical structure into the prepared liquid crystal mixture. As a result, ferroelectric liquid crystal optical modulation element incorporating the blended mixture exhibits satisfactory orientation characteristic, thus eventually generating high-grade display.

IPC 1-7

G02F 1/137; **C09K 19/42**

IPC 8 full level

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CPC (source: EP)

C09K 19/2021 (2013.01); **G02F 1/141** (2013.01)

Citation (examination)

T. HARADA et al., SID 85 DIGEST 16, pages 131-134 (1985).

Cited by

USRE37509E; US5061047A; EP0355772A3; US5190686A; WO9011547A1

Designated contracting state (EPC)

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EP 0227419 A2 19870701; **EP 0227419 A3 19890920**; **EP 0227419 B1 19940518**; DE 3689842 D1 19940623; DE 3689842 T2 19941215; JP S62141093 A 19870624

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